



Office of Naval Research Global 2016 Recruiting Brief

Steve Smolinski
Science Advisor Program Director
September 2015

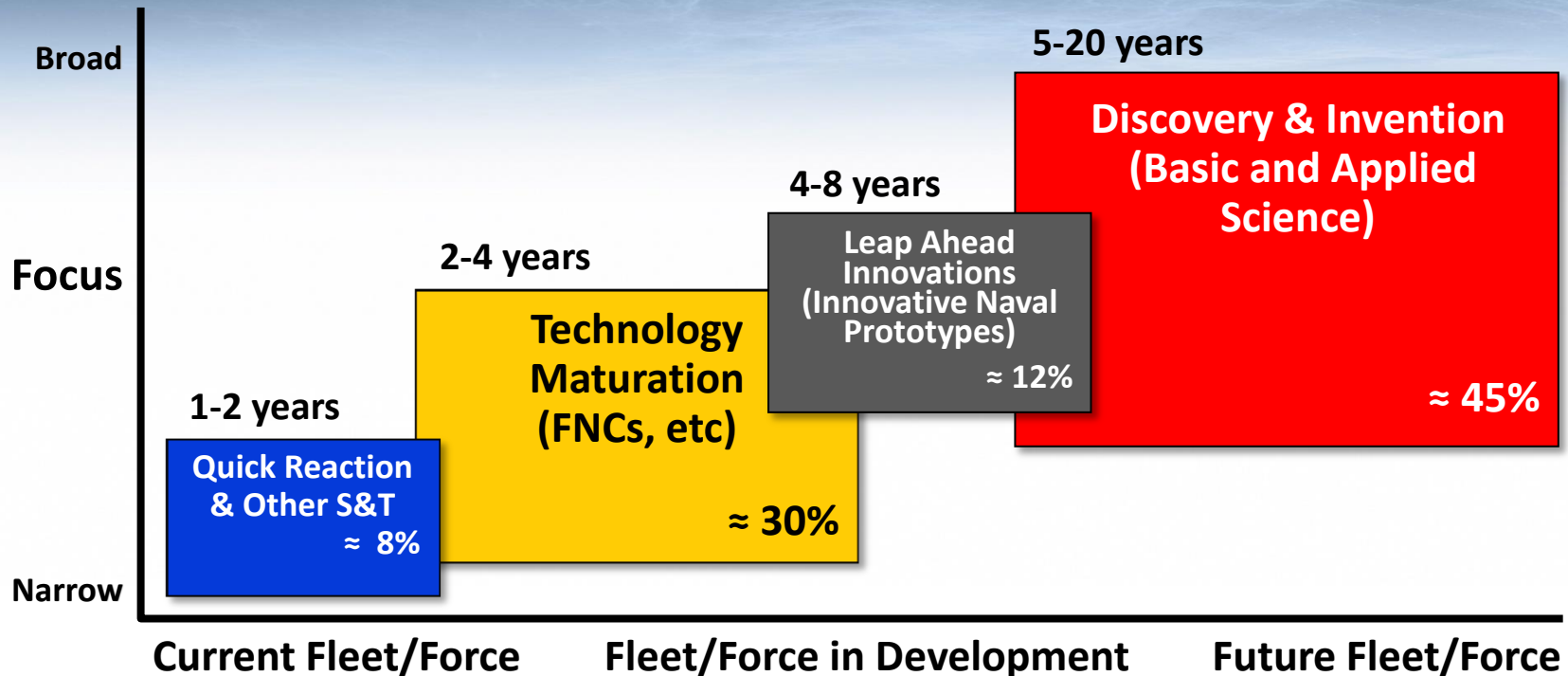
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<http://www.onr.navy.mil/Science-Technology/ONR-Global/employment-global.aspx>

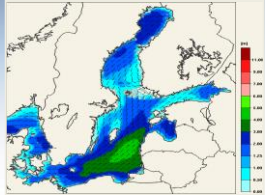
O F F I C E O F N A V A L R E S E A R C H



Warfighting Capabilities Enabled by S&T Investments



Naval S&T Focus Areas



Assure Access to the Maritime Battlespace

- Ocean/Atmospheric Sciences
- Underwater Acoustics
- Ocean Sensing



Autonomy and Unmanned Systems

- Robotics
- Machine Learning
- Perception
- Human Machine Interface



Expeditionary and Irregular Warfare

- Situational Awareness
- Decision Making
- Mobility / Logistics
- Soldier Protection



Information Dominance / Cyber

- Communications / Information Technology
- Computer Science
- Mathematics /Data Analytics



Power Projection and Integrated Defense

- Directed Energy
- Energetic Materials



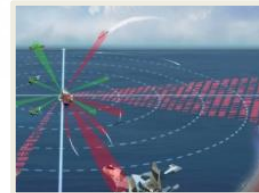
Platform Design and Survivability

- Air/Surface/Subsurface Vehicles
- Materials
- Corrosion /Biofouling
- Manufacturing Technologies



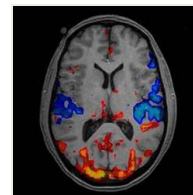
Power and Energy

- Renewable Energy
- Propulsion
- Power Control
- Thermal Management



Electromagnetic Maneuver Warfare

- EM Propagation & Waveforms
- Sensors and Electronics
- Optical Systems



Warfighter Performance

- Biomedical / Bioengineering
- Cognitive / Neural Sciences
- Training Technologies
- Health Protection



ONR is part of the NR&DE, Providing Full-Spectrum RDT&E

RDT&E Budget (6.1-6.7)

S&T Budget (6.1-6.3)

6.1 Basic Research	6.2 Applied Research	6.3 Advanced Technology Development	6.4 Adv. Comp. Development & Prototypes	6.5 System Development & Demonstration	6.6 RDT&E Management Support	6.7 Operational System Development
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Naval R&D Establishment

(ONR, SYSCOMs and their Warfare Centers, PEOs)

Office of Naval Research





ONRG Programs

International Science Program

23 Associate Directors located in six offices worldwide tasked with finding the best science and bringing it back to the Naval Research Enterprise

Science Advisor Program

23 Science Advisors embedded in Navy and Marine Corps staffs to connect the warfighter and the Naval Research Enterprise

Naval S&T Cooperation Program

Developing and maintaining US Navy military to military basic research relationships



Academia and Labs



US Navy Fleet



S&T Mil to Mil Bi-lat



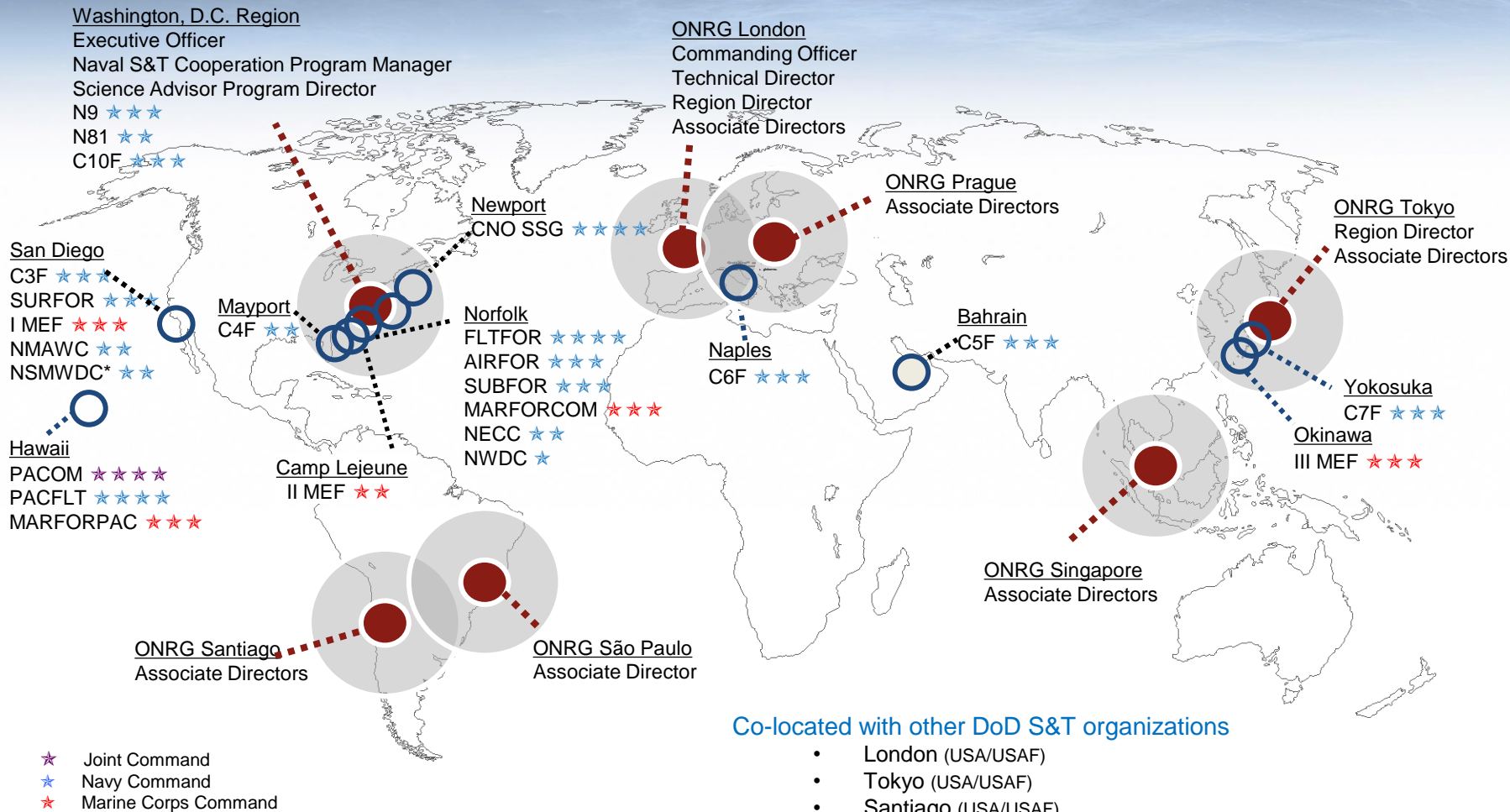
Our Talented Workforce

ONR Global personnel positioned across the world:

- Science Advisor Program (23 Science Advisors)
 - Chief of Naval Research's Ambassadors to the U.S. Naval Fleet Force
 - Assigned to U.S. Navy and USMC commands as S&T expert advisors
 - Predominantly Masters level engineering scientists experienced with the Naval Research Enterprise (NRE) and DOD acquisition process
- International Science Program (23 Associate Directors)
 - Global technology scouts for the ONR and Naval Research Enterprise
 - Assigned to ONR Global's regional offices in Singapore, London, Prague, Tokyo, Santiago, & Sao Paulo
 - Predominantly PhD level scientists well-versed in basic and applied research
- Naval S&T Cooperation Program (3 Int'l Program Officers)
 - International Partnership Builders between ONR/NRL and foreign defense counterpart organizations
 - Assigned to ONR HQ (Arlington, VA)
 - Predominantly Masters/PhD level engineering scientists experienced with the Naval Research & Development Enterprise (NR&DE), DOD acquisition process, and applied research



Global Presence



* Position stood up FY2016

We Operate Forward



Science Advisors Strive To

Articulate Fleet Force S&T needs and requirements to ONR, NRL, NRE

Communicate Command issues to CNR, ONR leadership and Program Officers

Serve as ONR on site rep during Fleet Force exercises and demonstrations

Lead S&T planning & experimentation processes to focus on meeting critical needs, then assist in transition of key technologies to the Warfighter



CNR's Ambassadors to the Fleet!



Science Advisor Requirements/Attributes

- **Apply through USAJOBS** (Vacancy Announcement **Dec 2015 – Jan 2016**)
- **Contact Existing Science Advisors**, talk to your lab/warfare center SA Program Manager
- Most are senior engineers & scientists with **over 10 years of practical experience** working on Fleet Force Systems (Aircraft, Ship, Submarines, Components) & Processes
- **Have Experience Interacting and Briefing** Flag/General Officers and SES
- **Have a working knowledge of ONR, NRE, and DoD Acquisition Process**
- **Provide an Endorsement Letter** from your “Home” Command **Due: 12 January 2016**
 - Approves you applying to become an ONR SA
 - Home command agrees to take you back at equal or greater pay, position at end of tour
- Must Have a **TS SCI Clearance** at the start of the assignment
- Must Be a **Self-Starter, Highly Motivated, Agent of Change**, and have a **Positive Attitude**
- **Strong Communication Skills**
- Can **maintain a sense of humor** under high stress situations
- **Customize your resume to address SA unique attributes; be honest not modest!**



Associate Directors Strive To

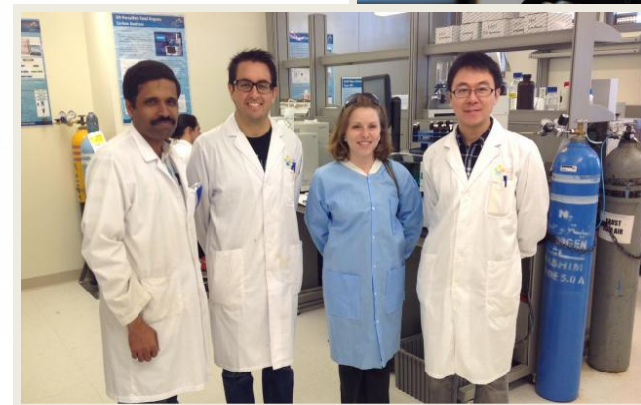
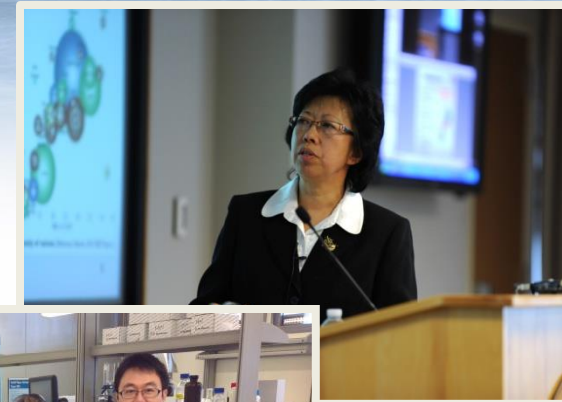
Act as a tech broker linking ONR, NRL, and the NRE with International S&T

Identify disruptive S&T in order to avoid Naval technical surprise

Gain enhanced awareness of S&T through direct, regular contact with international colleagues

Initiate and manage grants to provide tangible links between foreign scientists and their US Naval counterparts

Provide ONR forward presence with global innovators and technologists



CNR's Global S&T Scouts!



Associate Director Attributes

Required

- Strong technical credentials
- In-depth experience in performing basic or applied research
- Ability to network/interface in a tech broker role
- US citizenship
- Ability to travel extensively

Preferred

- PhD in relevant field
- Experience with ONR/NRE
- Foreign language capability
- International S&T experience

Associate Director candidates should apply to ONR Global's HR Manager. Send resumes/transcript to CNREURAFSWA-ONRG-APPLICATIONS@eu.navy.mil

Position announcements are posted on ONR Global external website:
<http://www.onr.navy.mil/Science-Technology/ONR-Global/employment-global.aspx>



International Program Officers Strive To

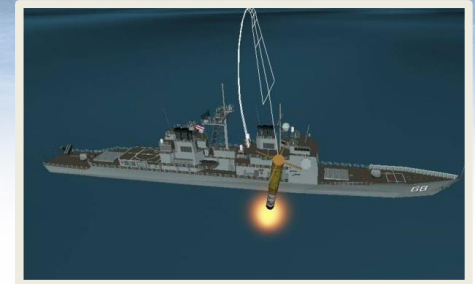
Serve as CNR's action officer to coordinate & manage ONR's international S&T partnerships

Engage with foreign defense organizations to identify & develop collaborative projects that solve Naval capability gaps

Interface throughout ONR & NRL;

Gain exposure across the S&T portfolio

Connect across USG (OPNAV, NIPO, AF/Army/DARPA, OSD, DOS, OSTP, etc)



CNR's International Partnership Builders!



International Program Officer Attributes

Required

- Strong technical credentials
- Interest in technical broker role
- Ability to network/interface
- Strong Communication Skills
- Self-Starter, Highly Motivated, High Energy, Positive Attitude

Preferred

- Experience Interacting and Briefing Flag/General Officers and SES
- Experience with ONR/NRE
- International S&T experience
- TS SCI Clearance

International Program Officer candidates should apply to ONR Global's HR Manager. Send resumes to CNREURAFSWA-ONRG-APPLICATIONS@eu.navy.mil

Position announcements are posted on ONR Global external website:
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Potential Vacancies in Summer 2016*

Science Advisor:

- NAVAIRFOR (Norfolk, VA)
- NECC (Little Creek, VA)
- I MEF (Camp Pendleton, CA)
- C3F (San Diego, CA)
- CNO SSG (Newport, RI)

Associate Director:

- Autonomy and Unmanned Systems (London)
- Expeditionary & Irregular Warfare (London)
- Information Dominance (London)
- Synthetic Biology (London or Tokyo)
- Electromagnetic Maneuver Warfare (Tokyo)
- Power Projection & Integrated Defense (Singapore)
- Global Tech Awareness Asia (Singapore)
- Global Tech Awareness S. America (Sao Paulo or Santiago)
- Global Tech Awareness Central/Eastern Europe (Prague)



* New SAs/ADs in place July/Aug 2016



Potential Vacancies in Summer 2017*

Science Advisor:

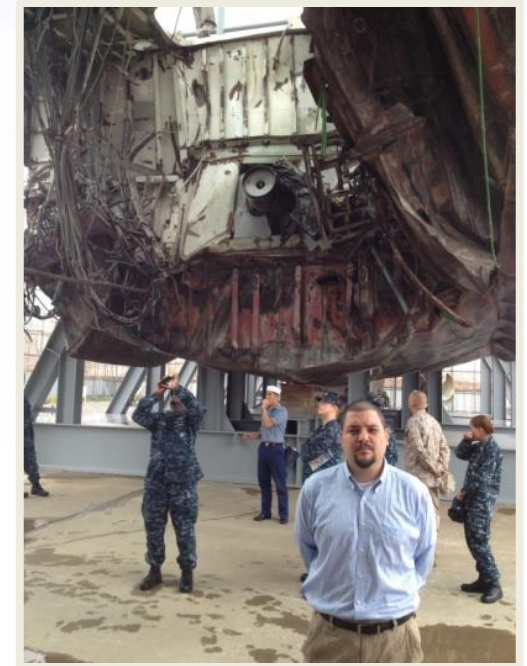
- MARFORPAC (Hawaii)
- OPNAV N81 (Washington DC)
- OPNAV N9 (Washington DC)
- NAVSUBFOR (Norfolk)
- C6F (Naples, IT)
- C7F (Okinawa)

Associate Director:

- Platform Design and Survivability (Singapore)
- Global Technical Awareness Middle East/ N. Africa (London)
- Global Technical Awareness S. America (Sao Paulo)
- Global Technical Awareness S. America (Santiago)

International Program Officer (tentative):

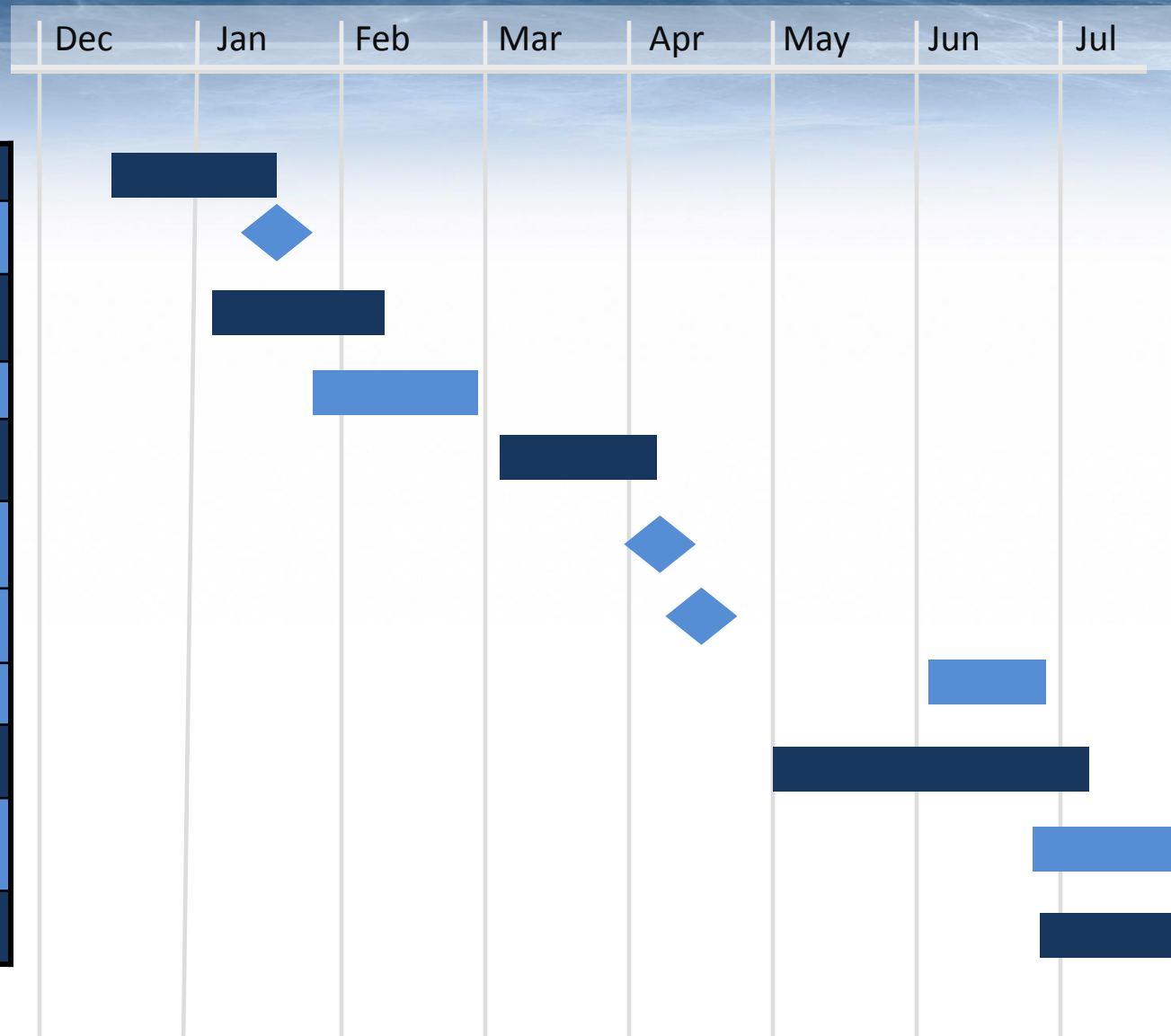
- Asia-Pacific and Latin America
- Europe, Middle East, and North Africa



* Tentative projection of positions



FY 16 ONRG SA Selection Process



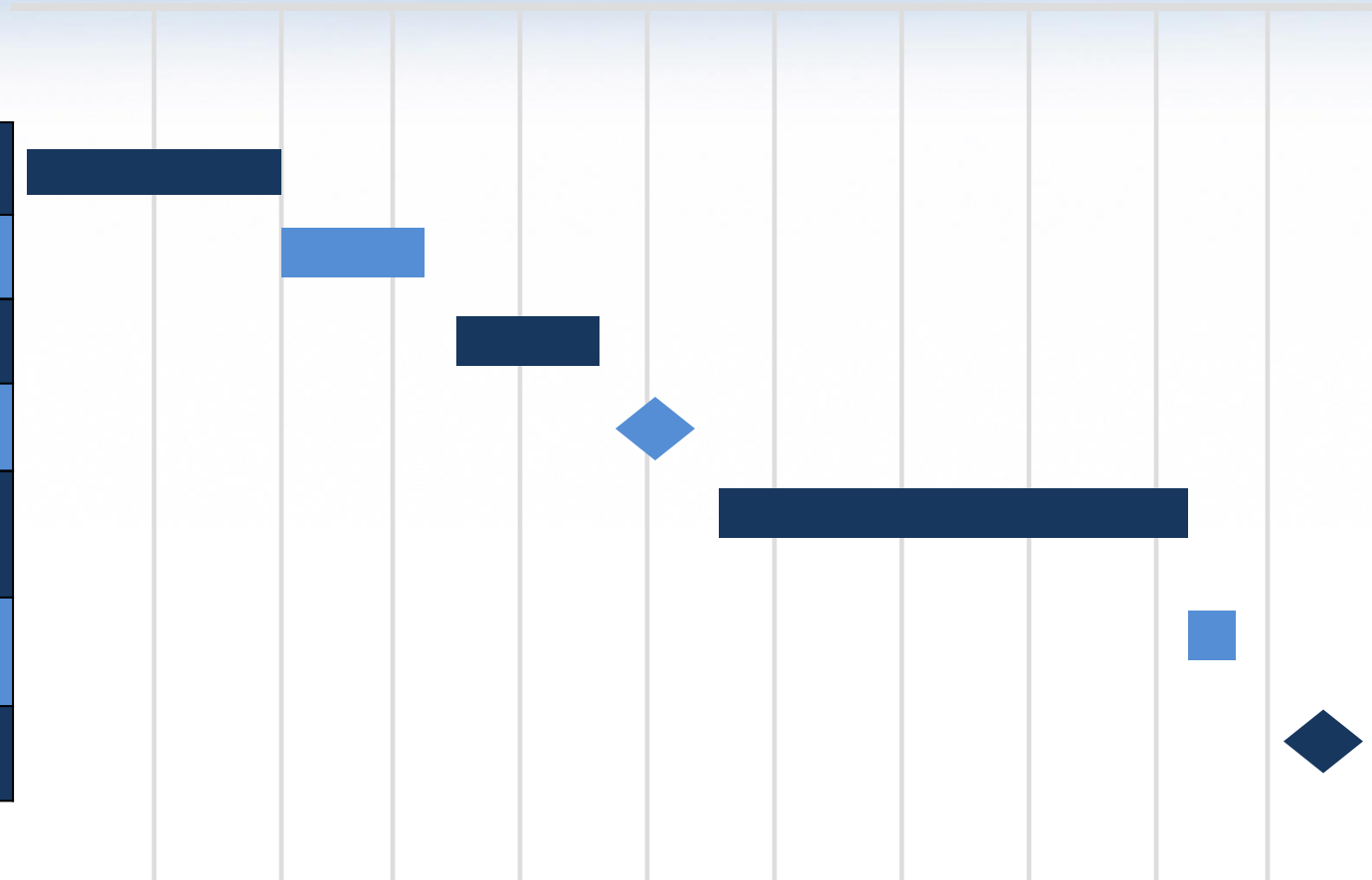
These dates projected as of 24 September 2014



FY16 ONRG AD Selection Process

Sept Oct Nov Dec Jan Feb Mar Apr May Jun Jul

- Advertise positions
- Evaluate resumes
- Interview candidates at ONR
- Offers to successful candidates
- New ADs prepare for Assignment, Logistics Finalized
- New ADs attend ONR orientation
- New hires report to duty stations



These dates projected as of August 2015



SA/ AD/ IPO Training

One Week Orientation at ONR prior to your Assignment (June)

- Meet/Interact with Other SA/ADs, ONR Department Heads and Program Managers
- Coaching on Key Communication Tools
- Administrative Requirements

Collaboration with SA and AD Communities

- ONRG Technical Meeting
- Navy/Industry Technical Reviews
- Build Friendships and Contacts that last a lifetime

Technical Director and Science Advisor Program Director Sounding Boards, Guidance

Peer Mentorship Program





SA/ AD/ IPO Development Opportunities

Scientist to Fleet/Field Program

- Phenomenal developmental benefits for DOD personnel and affiliates
- Invigorates passion for developing, deploying, and supporting innovative solutions
- First-hand perspective of the end user requirements and operating environment
- Fosters future collaboration opportunities between commands
- Ship/Submarine tours; USMC and other field exercises



Industry Tours

- Up to week-long tours for Science Advisors focused on a geographic region
- First-hand exposure to a full range of production facilities, labs and future technologies
- Foster Science Advisor Community networking and collaboration



Sample SA Project

Technology Insertion

- CG III MEF identified US/Republic of Korea (ROK) problems during Ulchi Freedom Guardian (UFG) 13 exercise.
- The Science Advisor invited MARCORSYSCOM to bring a new technology to the Ssang Yong 14 exercise for field testing which enabled several software changes/upgrades during the exercise and greatly increased system capability and force interoperability.
- The Science Advisor's ability to identify a promising solution and facilitate its use in an exercise gave the system developers invaluable access to foreign communications radios in an operational environment.
- Impact - a Deliberate Universal Needs Statement to warrant future funding for the capability, and improving the Common Operational Picture.



Participants

- ONRG Science Advisor: Kate Mangum

Sample AD Project

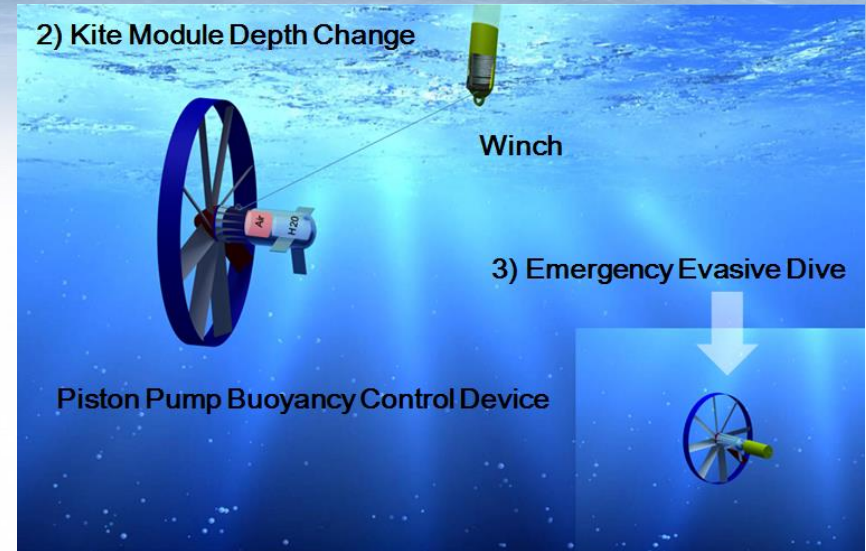
Autonomous Submersible Buoy System Utilizing Renewable Ocean Energy

Objectives

- Development of autonomous system for
 - 1) Moorless non-drifting buoy platform (Auto-pilot)
 - 2) Submerge in emergency
 - 3) Harvesting and utilizing of ocean renewable energy

Importance

- Autonomous mobilized robotic buoy could relocate on demand
- The ocean energy harvesting system could serve as a power source to Navy's ocean systems such as mobilized buoy, AUV, ASV and ships.
- Autonomous surface platform could serve for various sensor payload such as HF Radar



Participants

- Korea: Dr. Son-Cheol Yu, Pohang Institute of Science and Technology
- US Participants: Dr. Peter Cho, ONR 33; Mr. Scott Littlefield, DARPA HYDAR Program; Dr. Gerry Borsuk, NRL
- ONRG Associate Director: Joon Choe

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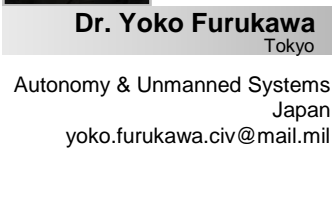
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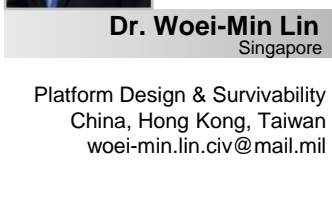
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2015-2016 ONR Global Naval S&T Cooperation Program

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Summary

Science Advisors, Associate Directors, and International Program Officers Provide a **Threefold** Return on Investment:

- Serving Naval Commands and Fostering International Collaboration
- Providing a Critical Link to between Operating Forces/International Scientific Community and ONR/NRE
- Gaining a “hands-on” experience with Fleet Force operations and International Science Community which you can leverage for the remainder of your careers

*Science Advisor Vacancy Announcement (USA Jobs) on the street ~ **Mid- December***

*Associate Director Positions Advertised (ONR Website) ~ **now - October***



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<https://www.usajobs.gov/>